



Snagit® 12

COM Server Document

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Introduction to the Snagit COM Server

Using Snagit's COM Server, you can easily incorporate Snagit's screen capture functionality into your organization's proprietary applications. The COM Server lets you customize capture instructions for Snagit, automate the capture process, and programmatically control Snagit's entire array of image, video, and text capture features from within your own application.

Snagit's add-ins for Microsoft and Adobe products – which allow you to launch Snagit from the toolbar within these applications – are great examples of the power and convenience of Snagit's COM Server.

You can access Snagit's capture functionality from any programming language that supports COM, including the following:

- ▶ C#
- ▶ C/C++
- ▶ Visual Basic
- ▶ Fox Pro 9
- ▶ Ruby
- ▶ VBScript

To view sample projects in various programming languages that demonstrate how to use Snagit to take image captures and video recordings from your own application, go to <https://github.com/TechSmith/Snagit-COM-Samples>.

This Snagit COM Server User Guide assumes you are familiar with COM programming. If you need more information about COM, please consult your development environment's documentation.

Installation Information

The Snagit COM Server is built into Snagit. Download and install Snagit. This automatically registers the Snagit COM Server and makes it available to other applications.

The Snagit COM Server is implemented as an out-of-process COM Server. The Snagit setup program registers the Snagit COM Server after you install Snagit. If you need to manually register the COM Server, use a command prompt and type the following from the Snagit program folder:

```
Snagit32.exe /register
```

Application Deployment and Licensing

Each desktop using the Snagit COM Server must have Snagit installed. Any commercially distributed software application using the Snagit COM Server must comply with the restrictions found in the Snagit Software License Agreement found in the license.txt file in the Snagit application folder.

If you are using the Snagit evaluation version, the COM Server is fully functional during the evaluation period. Once the trial has expired, invoking the capture method fails, and the COM Server gives a **serrSnagitExpired** error, and **LastError** is set to **serrSnagitExpired**. All programs using the Snagit COM Server should check the **LastError** property or subscribe to the

events from the capture interfaces, so that this error case is handled correctly.

System Requirements

An application using the Snagit COM Server must meet the following system requirements:

- ▶ Microsoft Windows 7 or Windows 8 and newer (32-bit and 64-bit)
- ▶ .NET 4.0 Full or later
- ▶ 2.4 GHz single core processor (2.4 GHz dual core required for video capture)
- ▶ 1 GB of RAM (2 GB required for video capture)
- ▶ 300 MB of hard-disk space for program installation
- ▶ Windows 7 compatible video and audio hardware
- ▶ Video Capture on Windows 7 N requires the Media Feature Pack for Windows 7 N

What's New

The following changes have been made for the most recent version of Snagit.

Version 12.0

- ▶ Added link to new code samples
- ▶ Fastest scrolling method option has been exposed.
- ▶ Text Capture has been removed.

Version 11.1

- ▶ Added the following:
 - Enumerations:
 - ◆ snagVideoInput
 - ◆ snagVideoOutput
 - ◆ snagVideoFileType
 - ◆ snagRecorderError
 - ◆ snagRecorderState
 - Interfaces:
 - ◆ IVideoCapture
 - ◆ IVideoFormat
 - ◆ IMP4Format
 - ◆ IVideoFile
 - Events:
 - ◆ _IRecorderEventsMethods
- ▶ The default setting for IImageFile and IImageFile2 for the FileType property was changed from siftBMP to siftPNG to reflect our default of PNG in the Snagit Editor.
- ▶ The Snagit 11 COM server will not be registered if a previous version of Snagit is already installed. You will need to register the new COM server manually by running "Snagit32.exe /register" at a Admin command prompt.

- ▶ The AppendToFile property for the ITextFile2 interface is ignored if the UseFormattedText property is set.

Version 11

As of Snagit version 11, the following changes have been made:

- ▶ Some enumerated types have had values removed.
 - snagImageInput
 - ◆ siiDOSScreen
 - ◆ siiProgramFile
 - ◆ siiEllipse
 - ◆ siiRoundedRect
 - ◆ siiTriangle
 - ◆ siiPolygon
 - ◆ siiWallpaper
 - ◆ siiDirectX
 - snagTextInput
 - ◆ stiDOSScreen
 - snagImageFileType
 - ◆ siftPCX
 - ◆ siftMSP
 - ◆ siftCAL
 - ◆ siftGEM
 - ◆ siftIOCAR
 - ◆ siftIOCAW
 - ◆ siftPICT
 - ◆ siftLEAD
 - snagColorConversionMethod
 - ◆ sccmCustom = 4
- ▶ Other enumerated types were removed entirely
 - snagDitherPalette
 - snagDitherMethod
- ▶ Color depth filters were removed
 - IImageColorConversion properties
 - ◆ snagImageColorDepth
 - ◆ snagDitherMethod
 - ◆ snagDitherPalette

Version 10

As of Snagit version 10, the following features have been added:

- ▶ New image input setting, **siiCapture**, for All-in-One Capture®.

Getting Started

The Snagit COM Server should be accessible from any language that supports COM. Only basic data types are used, see [Data Types](#) for more information.

The Snagit COM Server is not an automation server. None of the changes made through the COM Server are saved in the Snagit application or the registry. You can use the COM Server from multiple clients, so check return values on calls to methods in case a conflict has occurred.

How It Works

All the interfaces, properties, and methods described in this user guide are accessible from any COM enabled language. All the interfaces, properties, and methods described in this user guide are accessible from any COM enabled language.

| | |
|---------------------|--|
| Interfaces | These define the properties, methods, and events for a given COM object. |
| Properties | Values stored in an interface that may be set or retrieved. Some properties are read only; all interfaces are read only. |
| Methods | Functions in interfaces that interact with the COM server. |
| Events | Events may be sent from the COM server to the client program. The client program must “subscribe” to the event interface to receive the events. This is a language dependent option, and not all programming languages can receive events. |
| Enumerations | There are many enumerations used in the Snagit COM server. These are described individually in the Enumerations section. |

To access the COM object’s functionality, you must first create an instance of the object in your client program. See the tutorial for an example using Visual Basic 6.

► C++ MFC and ATL Users

The easiest way to make use of the COM server is using the Microsoft Visual C++ #import statement on the Snagit.tlb file present in the Snagit install directory. This creates smart-pointer wrapper classes for the COM server.

► Visual Basic 6 Users

A reference to the SNAGIT 1.0 Type Lib should be added in the *References* dialog accessed from the **Project > References** menu item.

► VB.NET and C# Users

Choose **Project > Add Reference** to add a reference to the SNAGIT 1.0 Type Lib. Note that the entry is on the COM tab page.

Image Capture Code Tutorial

This section gives you step-by-step instructions on the basic methods and properties you need to create an image capture. The source code fragments are given using Microsoft's Visual Basic programming language.

To view more sample projects in various programming languages that demonstrate how to use Snagit to take image captures and video recordings from your own application, go to <https://github.com/TechSmith/Snagit-COM-Samples>.

Step 1 – Add a Reference to the SNAGIT 1.0 Type Library

To add a reference in Visual Studio 2013, do the following:

1. Open the project properties and click the References tab.
2. Click on the Add button to browse the COM objects on your system.
3. Locate the SNAGIT 1.0 Type Library and click OK.

Step 2 – Creating the Capture Object

Create the capture object.

```
Dim ImageCapture1 As SNAGITLib.ImageCapture  
Set ImageCapture1 = CreateObject("Snagit.ImageCapture.1")
```

Step 3 – Setting the Capture Properties

Configure various capture object properties. All object properties use default values if the property is not specified. Configure different properties based on what you want to do with the capture object.

```
// Configure to capture the a window and save to the clipboard  
ImageCapture1.Input = siiWindow  
ImageCapture1.Output = sioClipboard
```

If you do not know the current capture setting, you can retrieve these values.

```
Dim bUsePreview  
bUsePreview = ImageCapture1.EnablePreviewWindow  
Dim CaptureCursor CaptureCursor = ImageCapture1.IncludeCursor
```

Step 4 – Starting the Capture

Once the capture object is configured correctly, start the capture session.

```
ImageCapture1.Capture
```

The Capture call is asynchronous. The capture object may still be completing the operation after the function returns.

Step 5 – Getting Capture Information

During or after a capture, you may want to monitor the state of the capture.

```
Dim capState As snagCaptureState  
capState = ImageCapture1.CaptureState  
  
Dim capDone  
capDone = ImageCapture1.IsCaptureDone
```

The capture state information resets when a new capture is started.

Specific interfaces send event callbacks to which a client can subscribe. This allows the client program to update without polling.

Interfaces

Interfaces define the methods and properties of the COM object.

When available, methods are listed before properties on interface pages.

Properties can be write or read only. Any property that is used to access another interface is read only.

The following interfaces are available:

- ▶ [IAutoScrollOptions](#)
- ▶ [IAutoScrollOptions2](#)
- ▶ [IClipboardOptions](#)
- ▶ [IDelayOptions](#)
- ▶ [IExtendedWindowOptions](#)
- ▶ [IFTPOptions](#)
- ▶ [IImageAnnotation](#)
- ▶ [IImageBorder](#)
- ▶ [IImageCaptionOptions](#)
- ▶ [IImageCapture](#)
- ▶ [IImageCapture2](#)
- ▶ [IImageCaptureResults](#)
- ▶ [IImageColorConversion](#)
- ▶ [IImageColorEffects](#)
- ▶ [IImageColorSubstitution](#)
- ▶ [IImageFile](#)
- ▶ [IImageFilters](#)
- ▶ [IImageResolution](#)
- ▶ [IImageScale](#)
- ▶ [IImageTrim](#)
- ▶ [IImageWatermark](#)
- ▶ [IMailOptions](#)
- ▶ [IMenuOptions](#)
- ▶ [IMP4Format](#)
- ▶ [IPrinterOptions](#)
- ▶ [IPrinterPageLayoutOptions](#)
- ▶ [IRegionOptions](#)
- ▶ [ISelectedArea](#)
- ▶ [ITextFont](#)
- ▶ [ITWAINOptions](#)
- ▶ [IVideoFile](#)
- ▶ [IWindowOptions](#)

IAutoScrollOptions

The **IAutoScrollOptions** interface contains the settings for scrolling captures. These settings are only valid when the input of the capture object is set to **siiWindow** or **siiRegion** on an image capture object.

Properties

| Property (type) | Default | Read / Write | Notes |
|---|---------------|--------------|---|
| AutoScrollMethod (sna-gAutoScrollMethod) | sasmNone | Write | Sets the type of automatic scrolling for the next capture. See sna-gAutoScrollMethod for information on possible options. |
| ForegroundScrollingWindow (Boolean) | True | Write | If enabled, the next capture performed brings the window to be scrolled to the foreground and displays the window while scrolling. |
| Delay (long) | 0 | Write | The time, in seconds, to wait between foregrounding the window and capturing. Valid values are 0 to 300000. |
| StartingPosition (sna-gAutoScrollStartingPosition) | sassp-TopLeft | Write | The position from which the window is scrolled. For more information, see sna-gAutoScrollStartingPosition . |

IAutoScrollOptions2

The IAutoScrollOptions2 interface extends the IAutoScrollOptions interface by exposing the option to enable/disable using the fastest image scrolling method. Please note that the IImageCapture interface was not versioned to directly reference IAutoScrollOptions2. You will need to cast the IAutoScrollOptions pointer to a IAutoScrollOptions2 pointer in order to access this option.

| Property (type) | Default | Read / Write | Notes |
|---|---------|--------------|---|
| FastestScrollingMethod (Boolean) | True | Write | If disabled, Snagit reverts back to using older scrolling technology. |

IClipboardOptions

The IClipboardOptions interface is used to set the options related to Clipboard capture input.

Properties

| Property (type) | Default | Read / Write | Notes |
|-----------------------------|---------|--------------|--|
| WidthInPixels (long) | 640 | Write | Controls the width (in pixels) of Clipboard capture images. Set this value to zero to use the Windows desktop width and height for image dimensions. |

IDelayOptions

The **IDelayOptions** interface specifies the number of seconds to wait before taking a capture.

Properties

| Property (type) | Default | Read / Write | Notes |
|--|---------|--------------|--|
| EnableDelayedCapture (Boolean) | False | Write | If set to true, the Snagit COM server waits for the period of time specified in the DelaySeconds property before performing the capture. |
| DelaySeconds (long) | 10 | Write | Specifies the number of seconds to delay before performing a capture. Ignored if EnableDelayedCapture is set to false. |
| EnableCountdownWindow (Boolean) | True | Write | If set to true, a countdown is displayed showing the number of seconds left before the capture occurs. Ignored if EnableDelayedCapture is set to false. |

IExtendedWindowOptions

The **IExtendedWindowOptions** interface contains all the settings for an extended window capture. Extended window capture allows you to resize a window to any width/height before capturing (potentially bigger than the screen). The window is restored to its original width/height after capture is completed. You can also use this option to capture a window partially off the screen.

Only valid when capturing an image object using the **siiExtendedWindow** input.

Properties

| Property (type) | Default | Read / Write | Notes |
|--------------------------------|---------|--------------|---|
| EnablePreview (Boolean) | True | Write | If true, the user sets the height and width for |

| Property (type) | Default | Read / Write | Notes |
|--|---------|--------------|--|
| | | | the extended window capture. Ignored if UseSpecifiedCaptureSize is false. |
| Height (long) | 600 | Write | The height to size the window before taking the capture. Must be a positive integer. |
| UseSpecifiedCaptureSize (Boolean) | True | Write | |
| Width (long) | 800 | Write | The width to size the window before taking the capture. Must be a positive integer. |

IFTPOptions

The **IFTPOptions** interface is used when the output is set to **sioFTP** or **stoFTP**. The capture image or text is sent to an FTP server. At a minimum, the server and filename must be set in order to use FTP output.

Properties

| EnableProgressDialog (Boolean) | False | Write | When true, displays a dialog that detailing the status of the current transfer. |
|--------------------------------|----------------------|-------|--|
| Filename (string) | "" (empty string) | Write | File name to use if UseAutomaticFileNaming is false, or the prefix of the file name if UseAutomaticFileNaming is true. |
| Password (string) | "" (empty string) | Write | Password on the FTP server, if it requires authentication. Use with ServerRequiresAuthentication . |
| Port (long) | 21 | Write | The port of the FTP server to upload to. |
| ProxyServer (string) | "" (empty string) | Write | Specifies both the proxy server name and the port in the format "server:port". Only used if UseProxyServer is true. |
| RemotePath (string) | "" (empty string) | Write | Path to a directory on the remote server to put the output file. This can be relative or absolute, but must exist. |
| SequenceLimit (long) | 0 | Write | Limits the number of auto-named files stored on the FTP server (oldest file is deleted). Use 0 for no limit. |
| Server (string) | "" | Write | Location of the FTP server to upload to. |

| EnableProgressDialog (Boolean) | False | Write | When true, displays a dialog that detailing the status of the current transfer. |
|---|----------------------|--------------|--|
| | (empty string) | | This does not need the "ftp://" prefix. |
| ServerRequiresAuthentication (Boolean) | False | Write | Use with UserName and Password . |
| UseAutomaticFileNaming (Boolean) | False | Write | When true, the file is automatically named. Numbers are appended to the end of the file name , starting with 1. Files of separate types (extensions) have separate numbering. |
| UsePassiveFTP (Boolean) | False | Write | Enable or disable passive FTP mode. |
| UseProxyServer (Boolean) | False | Write | Use when routing transfers through a proxy server. |
| UserName (string) | "" (empty string) | Write | User name on the FTP server, if it requires authentication. Use with ServerRequiresAuthentication . |
| UseTempFileReplace (Boolean) | True | Write | When true, the is uploaded under a temporary name and then renamed to the appropriate output file name. |

IImageAnnotation

The **IImageAnnotation** interface allows for overlaying user or system captions on the captured image. This interface allows you to set caption formatting options and caption types.

- To set placement and text effects, such as text color, shadow, outline and background color please refer to the [IImageCaptionOptions](#) interface.
- Caption font styles may also be set by using the **ITextFont** interface, which can be accessed from [IImageCaptionOptions](#).

The text will be truncated in the caption if the text length extends beyond the width of the image or the width of the printed page.

Properties

| Property (type) | Default | Read / Write | Notes |
|--|-------------------|--------------|--|
| EnableCaption (Boolean) | False | Write | Enables the text caption. |
| PromptForCaption (Boolean) | False | Write | Prompts the user for caption text. Ignored if EnableCaption is set to false. |
| CaptionText (string) | "" (empty string) | Write | The text use in the caption. |
| IncludeComputerName (Boolean) | False | Write | Appends the name of the computer to the caption. |
| IncludeUserName (Boolean) | False | Write | Appends the name of the current user to the caption. |
| IncludeTimeDate (Boolean) | False | Write | Appends the time and/or date to the system caption. |
| TimeDateDisplayOrder (snagTimeDateOrder) | stdoTimeThenDate | Write | Defines if, and in what order, to display the time and date. |
| UseWindowsTimeFormat (Boolean) | True | Write | Use current Windows standard format for time. |
| UseWindowsDateFormat (Boolean) | True | Write | Use current Windows standard format for date. |
| CustomTimeFormat (string) | "" (empty string) | Write | Text representing the format of the time, such as "h:mm:ss tt". |
| CustomDateFormat (string) | "" (empty string) | Write | Text representing the format of the date, such as "M/d/yyyy". |
| PrintCaptionsAtPageBottom (Boolean) | True | Write | If true, the caption is not printed over the image, but instead added to the bottom. |
| CaptionOptions (IImageCaptionOptions) | | Read | An interface containing settings for the text displayed as a caption. |
| SystemCaptionOptions (IImageCaptionOptions) | | Read | An interface containing settings for the text displayed as a caption. |

IImageBorder

The **IImageBorder** interface is a filter that creates a border around the edge of an image. This filter may increase the size of the original captured image.

Properties

| Property (type) | Default | Read / Write | Notes |
|-------------------------------------|---------------------|--------------|--|
| EnableBorder (Boolean) | False | Write | Enables the border filter. |
| FrameOutsidelImage (Boolean) | True | Write | If true, draws the border outside the bounds of the captured image. |
| Use3DEffect (Boolean) | True | Write | Uses three colors to create a 3D effect. |
| TotalWidth (long) | 8 | Write | The total width of the border, in pixels. |
| ShadowWidth (long) | 2 | Write | The width, in pixels, of the shadow effect. Valid values are 0 to one half of the value of TotalWidth . |
| MainColor (long) | RGB (192, 192, 192) | Write | The default border color. Any RGB color is a valid value. This is the only color used if Use3DEffect is false. |
| HighlightColor (long) | RGB (255, 255, 255) | Write | The highlight color of the 3D border effect. Any RGB color is a valid value. This color is used only if Use3DEffect is true. |
| ShadowColor (long) | RGB (128, 128, 128) | Write | The shadow color of the 3D border effect. Any RGB color is a valid value. This color is used only if Use3DEffect is true. |

For more information on RGB color values, see [Colors](#).

IImageCaptionOptions

The **IImageCaptionOptions** interface contains the settings for caption text on image captures. This interface provides access to caption placement and text effects.

- ▶ To set the font for the caption text, please refer to the [ITextFont](#) interface.
- ▶ To set the type of caption, please refer to the [IImageAnnotation](#) interface.

Properties

| Property (type) | Default | Read / Write | Notes |
|---|---------------------|--------------|---|
| BackgroundColor (long) | RGB (0, 0, 0) | Write | The background color of the rectangle on which the text is displayed. Any RGB color is a valid value. If UseTransparentBackground is true, this property is not used. |
| CaptionStyle (snag-CaptionTextStyle) | sctsNormal | Write | Text style for the caption. |
| Font (ITextFont) | | Read | Interface that exposes the font style settings. |
| OutlineColor (long) | RGB (255, 255, 255) | Write | The color of the outline that surrounds the text. Any RGB color is a valid value. |
| Placement (snagPlacement) | spCenterTop | Write | Where the text is placed on the captured image. |
| ShadowColor (long) | RGB (192, 192, 192) | Write | The color of the drop shadow effect for the text. Any RGB color is a valid value. |
| TextColor (long) | RGB (0, 0, 0) | Write | The font color. Any RGB color is a valid value. |
| UseTransparentBackground (Boolean) | False | Write | Hides the rectangle on which the text is displayed. |
| UseWordWrap (Boolean) | True | Write | Wraps the text to a new line if the text is wider than the display area. |

For more information on RGB color values, see [Colors](#).

IImageCapture

The **IImageCapture** interface is the base capture interface for image captures. All image capture actions and settings are contained within it.

If your users have Snagit version 8.1.0 or later, use the **IImageCapture2** interface for image captures.

Methods

| Name | Action | Notes |
|----------------|--------------------------|---|
| Capture | Invokes an image capture | <p>Moves the Snagit COM server into a busy state while the capture is performed.</p> <p>This is always non-blocking except when the output mode is set to sioFile with the Editor window disabled. In order to know when a capture finishes, subscribe to either the _ICaptureEvents or poll the IsCaptureDone property.</p> |

Properties

| | | | |
|--|----------------------|-----------|---|
| AutoScrollOptions (IAutoScrollOptions) | | Read-only | An interface containing the settings for scrolling captures. |
| BackgroundColor (Long) | RGB(255, 255, 255) | Write | Sets the background color to use outside the capture area for the next capture performed. Any RGB color value is valid (see Colors). |
| CaptureMultipleAreas (Boolean) | False | Write | Enables or disables multiple area selection for the next capture performed. |
| CaptureState (snag-CaptureState) | scsIdle | Read-only | Returns the current capture state set by the Snagit COM server. Instead of subscribing to the event interface, you can poll this property for the state of the Snagit COM server. |
| ClipboardOptions (IClipboardOptions) | | Read-only | An interface to set options related to Clipboard capturing inputs. |
| DelayOptions (IDelayOptions) | | Read-only | An interface that allows for a capture to be called after a specified number of seconds. |
| EnablePreviewWindow (Boolean) | False | Write | Enables or disables the Editor window for the next capture. |
| Filters (IImageFilters) | | Read-only | A collection of interfaces for adjusting a captured image. |
| ForegroundPreview (Boolean) | True | Write | <p>When enabled, this forces the Editor window into the foreground (gives it focus) after making a capture.</p> <p>Only valid if EnablePreviewWindow is set to true.</p> |

| | | | |
|--|------------|-----------|---|
| IncludeCursor (Boolean) | True | Write | Enables or disables the inclusion of the mouse cursor for the next capture performed. |
| Input (snagImageInput) | siiWindow | Write | Changes the input mode for the next capture performed. The input mode determines where the Snagit COM server captures the bitmap from. |
| InputExtendedWindowOptions (IExtendedWindowOptions) | | Read-only | An interface containing all settings for an Extended Window capture. |
| InputMenuOptions (IMenuOptions) | | Read-only | An interface containing all settings for a Menu capture (input set to siiMenu). |
| InputRegionOptions (IRegionOptions) | | Read-only | An interface containing all the settings for a Region capture (input set to siiRegion or stiRegion). |
| InputTWAINOptions (ITWAINOptions) | | Read-only | An interface containing all the settings for a TWAIN capture (input mode set to siiTwain). |
| InputWindowOptions (IWindowOptions) | | Read-only | An interface containing the settings for a Window capture (input set to siiWindow or stiWindow). |
| IsCaptureDone (Boolean) | False | Read-only | After a call to the Capture method has been made, this property tests to see if the capture has been completed. This property blocks and performs a polling to see when the capture state goes back to scsIdle . |
| LastCaptureSucceeded (Boolean) | True | Read-only | Returns true if the last capture attempt was successful. Returns false if the last capture attempt was unsuccessful. |
| LastError (snagError) | serrNone | Read-only | Holds the last error set in the Snagit COM server. If an application subscribes to the OnStateChange event of the _ICaptureEvents interface, this property can be read for the error on a scsCaptureFailed state change. This property is reset to serrNone when a new call to the Capture method is made. |
| LastFileWritten (string) | "" (empty) | Read- | If the last capture used sioFile as |

| | | | |
|---|---------|-----------|--|
| | string) | only | the output, this property contains the whole path for the resulting image file. |
| NotificationType (snag-NotificationType) | sntNone | Write | Sets the messages the Snagit COM server displays. For more information on notifications see snag-NotificationType enumeration description. |
| Output (snagImageOutput) | sioFile | Write | Changes the output mode for the next capture performed. The output mode determines what the Snagit COM server does with the resulting bitmap from the capture. |
| OutputFTPOptions (IFTPOptions) | | Read-only | An interface containing settings for sending the capture out to FTP (output set to sioFTP or stoFTP). At a minimum, server and filename must be set. |
| OutputImageFile (IImageFile) | | Read-only | An interface for the configuration of an output image file. |
| OutputMailOptions (IMailOptions) | | Read-only | An interface for setting email output information. Either all information is specified and the email is sent immediately, or the user is prompted for all information. |
| OutputPrinterOptions (IPrinterPageLayoutOptions) | | Read-only | An interface used to specify the formatting of an output being sent to a printer (output set to sioPrinter or stoPrinter). |
| UseMagnifierWindow (Boolean) | True | Write | When enabled, a magnifier window shows next to the capture crosshairs for precision when defining capture regions. |

IImageCapture2

The **IImageCapture** interface is the base capture interface for image captures. All image capture actions and settings are contained within it.

IImageCapture2 replaces **IImageCapture** for users of versions 8.1.0 and later.

Methods

| Name | Action | Notes |
|----------------|--------------------------|--|
| Capture | Invokes an image capture | <p>Moves the Snagit COM server into a busy state while the capture is performed.</p> <p>This is always non-blocking except when the output mode is set to sio-File with the Editor window disabled. In order to know when a capture finishes, subscribe to either _ICaptureEvents or poll the IsCaptureDone property.</p> |

Properties

| Property (type) | Default | Read/Write | Notes |
|---|----------------------|------------|---|
| AutoScrollOptions (IAutoScrollOptions) | | Read-only | An interface containing the settings for scrolling captures. |
| BackgroundColor (long) | RGB(255, 255, 255) | Write | Sets the background color to use outside the capture area for the next capture performed. Any RGB color value is valid (see Colors). |
| CaptureMultipleArea (Boolean) | False | Write | Enables or disables multiple area selection for the next capture performed. |
| CaptureResults (IImageCaptureResults) | | Read-only | An interface that stores information about what happened during a capture. |
| CaptureState (snagCaptureState) | scsIdle | Read-only | Returns the current capture state set by the Snagit COM server. Instead of subscribing to the event interface, you can poll this property for the state of the Snagit COM server. |
| ClipboardOptions (IClipboardOptions) | | Read-only | An interface to set options related to Clipboard capturing inputs. |
| DelayOptions (IDelayOptions) | | Read-only | An interface that allows for a capture to be called after a specified number of seconds. |

| Property (type) | Default | Read/Write | Notes |
|---|-----------|------------|--|
| EnablePreviewWindow (Boolean) | False | Write | Enables or disables the Editor window for the next capture. |
| Filters (IImageFilters) | | Read-only | A collection of interfaces for adjusting a captured image. |
| ForegroundPreviewWindow (Boolean) | True | Write | When enabled, this forces the Editor window into the foreground (gives it focus) after making a capture. Only valid if EnablePreviewWindow is set to true. |
| HotspotType (snagHotspotType) | shtNone | Write | Changes the type of hot-spot captured. Hotspots are not compatible with all capture types. |
| IncludeCursor (Boolean) | True | Write | Enables or disables the inclusion of the mouse cursor for the next capture performed. |
| Input (snagImageInput) | siiWindow | Write | Changes the input for the next capture. Input determines where the bitmap is captured from. |
| InputExtendedIWindowOptions (IExtendedWindowOptions) | | Read-only | An interface containing all settings for an Extended Window capture. |
| InputMenuOptions (IMenuOptions) | | Read-only | An interface containing all settings for a Menu capture (input set to siiMenu). |
| InputRegionOptions (IRegionOptions) | | Read-only | An interface containing all the settings for a Region capture (input set to siiRegion or stiRegion). |
| InputTWAIOptions (ITWAINOptions) | | Read-only | An interface containing all the settings for a TWAIN capture (input mode set to siiTwain). |
| InputWindowOptions (IWindowOptions) | | Read-only | An interface containing the |

| Property (type) | Default | Read/Write | Notes |
|---|-------------------|------------|---|
| | | | settings for a Window capture (input set to sii-Window or stiWindow). |
| IsCaptureDone (Boolean) | False | Read-only | After a call to the Capture method has been made, this property tests to see if the capture has been completed. This property blocks and performs a polling to see when the capture state goes back to scsIdle . |
| LastCaptureSucceeded (Boolean) | True | Read-only | Returns true if the last capture attempt was successful. Returns false if the last capture attempt was unsuccessful. |
| LastError (snagError) | serrNone | Read-only | Holds the last error set in the Snagit COM server. If an application subscribes to the OnStateChange event of the _ICaptureEvents interface, this property can be read for the error on a scsCaptureFailed state change. This property is reset to serrNone when a new call to the Capture method is made. |
| LastFileWritten (string) | "" (empty string) | Read-only | If the last capture used sio-File as the output, this property contains the whole path for the resulting image file. |
| NotificationType (snag-NotificationType) | sntNone | Write | Sets the messages the Snagit COM server displays. For more information on notifications see the snag-NotificationType enumeration description. |
| Output (snagImageOutput) | sioFile | Write | Changes the output for the next capture. Output determines what happens to the captured bitmap. |

| Property (type) | Default | Read/Write | Notes |
|---|---------|------------|--|
| OutputFTPOptions (IFTPOptions) | | Read-only | An interface containing settings for sending the capture out to FTP (output set to sioFTP or stoFTP). At a minimum, server and file-name must be set. |
| OutputImageFile2 (IImageFile2) | | Read-only | An interface for the configuration of an output image file. |
| OutputMailOptions (IMailOptions) | | Read-only | An interface for setting email output information. Either all information is specified and the email is sent immediately, or the user is prompted for all information. |
| OutputPrinterPageLayoutOptions (IPrinterPageLayoutOptions) | | Read-only | An interface used to specify the formatting of output going to a printer. Only used when sioPrinter or stoPrinter is selected as the output. |
| OutputPrinterOptions (IPrinterOptions) | | Read-only | An interface for use with printer output. If UseDefault:Printer is set to true then other values set programmatically by SetData or by the user with the ShowSelectionDialog are ignored. |
| UseMagnifierWindow (Boolean) | True | Write | When enabled, a magnifier window shows next to the capture crosshairs for precision when defining capture regions. |

IImageCaptureResults

The **IImageCaptureResults** interface contains information about what happened during a capture.

Properties

| Property (type) | Default | Read/Write | Notes |
|--|----------------------|------------|--|
| LastFileWritten (string) | "" (empty string) | Read-only | The file path for the image file if sioFile was used as the output. |
| SelectedArea (ISelectedArea) | | Read-only | An interface that exposes the bounding box around the captured area. For a freehand region, this is the bounding box around the total area (e.g. the left-most or rightmost point of the selection). |

IImageColorConversion

The **IImageColorConversion** interface sets an image's color resolution during capture.

Properties

| Property (type) | Default | Read / Write | Notes |
|--|----------|--------------|---|
| ConversionMethod (snag-ColorConversionMethod) | sccmNone | Write | By default, no color conversion occurs. If set to sccmCustom , the ColorDepth and dither settings are used. If set to sccmMonochrome , the MonochromeThreshold is used. |
| MonochromeThreshold (long) | 50 | Write | A percentage value that determines the quantity of black and white that shows in the output image. Valid values are from 0 -100. |

IImageColorEffects

The **IImageColorEffects** interface is a collection of filters that modify the colors of a captured image. Note that these ranges are different than those presented in the Snagit program.

Properties

| Property (type) | Default | Read / Write | Notes |
|----------------------|---------|--------------|---|
| Brightness (long) | 0 | Write | Changes the intensity (brightness) of the image. Valid values are -1000 to 1000. |

| Property (type) | Default | Read / Write | Notes |
|-------------------|---------|--------------|---|
| Contrast (long) | 0 | Write | Changes the contrast between light and dark portion of the image. Valid values are -1000 to 1000. |
| Hue (long) | 0 | Write | Changes the hue of colors in the image (similar to rotating a color wheel to select a different mixture of colors). Valid values are -360 to 360. |
| Saturation (long) | 0 | Write | Changes the saturation of colors in the image. Saturation is the quantity of a color in a pixel, from gray at the lowest saturation to rich color in the highest. Valid values are -1000 to 1000. |
| Gamma (long) | 100 | Write | Adjusts the intensity of colors in an image by changing the gamma constant used to map the intensity values. Gamma correction changes brightness using a logarithmic scale for visual perception; gamma is a constant used to calculate the progression. Valid values are 1 to 499. |

IIImageColorSubstitution

The **IIImageColorSubstitution** interface allows colors in the captured image to be replaced. Multiple rules for color substitution can be added with the AddColorSub method.

Call **ClearColorSub** between captures to clear the current list of color substitutions.

Methods

| Method | Action | Parameters | Notes |
|--|--|---|---|
| AddColorSub (long, Orig-Color, long NewColor, long Accuracy, Boolean Swap-Colors) | Adds a color substitution to the list. | [in] OrigColor (long): The color to be replaced. [in] NewColor (long): The color to replace the original color. [in] Accuracy (long): How close the color should be to the color being replaced. [in] SwapColors (Boolean): If | Colors are selected using COL-ORREF values (0x00bbgrr). |

| Method | Action | Parameters | Notes |
|---|--|---|-------|
| | | true, colors are swapped instead of replaced. | |
| ClearColorSub() | Clears the current list of color substitutions. | | |
| ShowColorSubDialog (long IParentHandle, Boolean dialogAccepted) | Immediately shows the color substitution dialog. | [in] IParentHandle (long): Handle to window (hwnd) in 32-bit integer format. If the handle is not available, set to 0. [out] dialogAccepted (Boolean): True if the user selects OK to select a new color substitution. False if the user selects Cancel. | |

Properties

| Property (type) | Default | Read / Write | Notes |
|---|----------|--------------|---|
| ColorSubMethod (snag-ColorSubMethod) | scsmNone | Write | Used to substitute colors for other colors. |

For more information on RGB colors, see [Colors](#).

IImageFile

The **IImageFile** interface allows for the configuration of an output image file. Always call **LoadImageDefaults** after changing the **FileType** property.

Methods

| Method | Action | Parameters |
|---|---|---|
| LoadImageDefaults (snag-ImageFileType , newFileType) | Sets the file type and loads the default attributes for that type (sub-type, quality, etc). | [in] newFileType (snag-ImageFileType): The file type to load default settings for. |
| ShowFileSettingDialog (long IParentHandle, snag-ImageFileType , newFileType, Boolean dialogAccepted) | Shows the dialog for a given file type and sets the file type if the user accepts the dialog. | [in] IParentHandle (long): Handle to windows (hwnd) in 32-bit integer format. If handle is not available, set value to 0. |

| Method | Action | Parameters |
|--------|--------|---|
| | | [out] dialogAccepted (Boolean): True if the user clicked OK to set new file type settings. False if the user clicked Cancel. |

Properties

| Property (type) | Default | Read / Write | Notes |
|---|-------------------|--------------|--|
| AutoFilePrefix (string) | "SNAG-" | Write | When the FileNamingMethod is set to sofnmAuto , this string is the prefix used to automatically name files. |
| AutoNumPrefixDigits (long) | 4 | Write | When FileNamingMethod is set to sofnmAuto , this property specifies the number of digits to include in the automatically named output file. |
| ColorDepth (snag-ImageColorDepth) | sicdAuto | Write | Number of bits used for color encoding. |
| Directory (string) | "" (empty string) | Write | Sets the directory for the output file. If the FileNamingMethod is not set to sofnmPrompt , the Snagit COM server fails if this property is not set. |
| Filename (string) | "SNAGIT" | Write | Specifies the output filename to use. This is only used if FileNamingMethod is set to sofnmFixed . |
| FileNamingMethod (snag-OutputFileNamingMethod) | sofnmPrompt | Write | Method for naming the output file. |
| FileType (snagImageFileType) | siftPNG | Write | The format of the output file. Use LoadImageDefaults to avoid unexpected results. |
| FileSubType (snag-ImageFileSubType) | -indeterminate- | Write | Further specifies the type of image file to save. Do not assume a default subtype; instead choose a compatible subtype, call LoadImageDefaults , or use the |

| Property (type) | Default | Read / Write | Notes |
|---------------------------------|---------|--------------|--|
| | | | ShowFileSettingDialog function. |
| ProgressiveOption (long) | 0 - 12 | Write | Sets the number of scans for a progressively encoded image. A value of 0 means no progressive scan. This property is only valid if the FileType is set to siftJPEG . |
| Quality (long) | 25 | Write | Sets the quality of the compression on the image file. This property is only valid if the FileType property is set to siftJPEG . Valid values are 1 - 100. |

IImageFilters

The **IImageFilters** interface is a collection of interfaces for adjusted captured images. Most filters can be used in conjunction if all choices are compatible.

Properties

| Property (type) | Notes |
|--|---|
| Annotation (IImageAnnotation) | An interface for adding annotations to image captures. |
| Border (IImageBorder) | An interface for adding borders to image captures. |
| ColorConversion (IImageColorConversion) | An interface to convert colors in image captures. |
| ColorEffects (IImageColorEffects) | An interface for adding color effects to image captures. |
| ColorSubstitution (IImageColorSubstitution) | An interface for substituting colors in image captures. |
| Resolution (IImageResolution) | An interface for changing the resolution of image captures. |
| Scale (IImageScale) | An interface for resizing image captures. |
| Trim (IImageTrim) | An interface for trimming image captures. |
| Watermark (IImageWatermark) | An interface to add a watermark to image captures. |

IImageResolution

The **IImageResolution** interface sets the number of dots per inch (DPI) of the image. These settings have no effect on how the Snagit COM server displays or prints the image.

Properties

| Property (type) | Default | Read / Write | Notes |
|------------------------------------|---------|--------------|---|
| Resolution (long) | 96 | Write | If UseAutoResolution is false, sets the DPI resolution of the image. |
| UseAutoResolution (Boolean) | True | Write | If true, the Snagit COM server chooses the image resolution. If false, the value specified by Resolution is used. |

IImageScale

The **IImageScale** interface resizes a captured image.

Rounded, or even proportioned, percentage settings scale faster than irregular ones. If you use a factor that is not proportional (58%, for example), enable **UseSmoothScaling** to improve the image's appearance.

Properties

| Property (type) | Default | Read / Write | Notes |
|----------------------------------|------------|--------------|--|
| Factor (long) | 0 | Write | Percentage of the original width and height. |
| FactorHeight (long) | 100 | Write | Percentage of the original height. This property only applies when scaling by Factor. |
| FactorWidth (long) | 100 | Write | Percentage of the original width. This property only applies when scaling by Factor. |
| Height (long) | 200 | Write | Height, in pixels. This property does not apply when scaling by Factor. |
| KeepAspectRatio (Boolean) | True | Write | Keeps the image aspect ratio fixed while changing the width or height. |
| ScaleBy (snag- | sisbFactor | Write | Determines the units for scale (by width, by |

| Property (type) | Default | Read / Write | Notes |
|---|----------|--------------|--|
| ImageScaleBy) | | | height, by width and height, or by percentage). |
| ScaleMethod (snag-ImageScaleMethod) | sismNone | Write | This option disables scaling or specifies scaling to be based on a percentage or custom width/height values. |
| UseSmoothScaling (Boolean) | True | Write | This applies a "smoothing" effect images, removing the appearance of jagged edges. |
| Width (long) | 320 | Write | Width, in pixels. This property does not apply when scaling by Factor. |

IImageTrim

The **IImageTrim** interface removes pixels from the edges of an image. If the **TrimMethod** is set to **stmAuto**, none of the other values in this interface are used.

Properties

| Property (type) | Default | Read / Write | Notes |
|----------------------|---------|--------------|--|
| Bottom (long) | 0 | Write | The number of pixels to trim from the bottom of the image. Only valid if TrimMethod is set to stmManual . |
| Left (long) | 0 | Write | The number of pixels to trim from the left of the image. Only valid if TrimMethod is set to stmManual . |
| Right (long) | 0 | Write | The number of pixels to trim from the right of the image. Only valid if TrimMethod is set to stmManual . |
| Top (long) | 0 | Write | The number of pixels to trim from the top of the image. |

| Property (type) | Default | Read / Write | Notes |
|---|---------|--------------|---|
| | | | Only valid if TrimMethod is set to stmManual . |
| TrimMethod (snag-TrimMethod) | stmNone | Write | Determines the method for how pixels are trimmed from an image. |

IImageWatermark

The **IImageWatermark** interface is used to create a watermark on a captured image.

Properties

| | | | |
|-----------------------------------|-------------------|-------|--|
| ImageFilename (string) | "" (empty string) | Write | The filename of the image to be used for the watermark. |
| IncludeWatermark (Boolean) | False | Write | If true, a watermark is added in a fixed location to the image. |
| KeepAspectRatio (Boolean) | True | Write | If true, scaling performed on the watermark image retains the ratio between the width and height of the watermark source image file. |
| OffsetHorizontal (long) | 10 | Write | The amount the watermark is offset horizontally, by a percentage of overall image size, from the placement set in the Position property, Valid values are 1 - 100. |
| OffsetVertical (long) | 10 | Write | The amount the watermark is offset vertically, by a percentage of overall image size, from the placement set in the Position property, Valid values are 1 - 100. |

| | | | |
|---|---------------------|-------|--|
| Position (snagPlacement) | spCenterBottom | Write | Sets the position of the watermark in the output image. |
| Scale (long) | 15 | Write | <p>The level of scaling (by percentage) done to the watermark image before is added to the capture.</p> <p>Valid values are 1 - 100.</p> <p>In VB6, the "Scale" property is a reserved keyword. Use "Scale-Size" instead. (For Snagit version 8.1.0 or later.)</p> |
| TransparentColor (long) | RGB (128, 128, 128) | Write | <p>Any color in the watermark image matching the RGB value specified is not drawn over the captured image.</p> <p>This property is ignored unless UseTransparentColor is set to true.</p> |
| UseEmboss (Boolean) | False | Write | If true, the watermark image is embossed on the capture. |
| UseOverlay (Boolean) | False | Write | If true, the watermark is placed on top of the image. |
| UseSmoothScaling (Boolean) | True | Write | If true, the watermark image is smoothed using interpolation. |
| UseTransparentColor (Boolean) | False | Write | If true, any colors in the watermark image that are the same as the color in the TransparentColor property become transparent in the output image. |

IMailOptions

The **IMailOptions** interface sets email output related items. Either all information must be specified and the email is sent immediately, or the user is prompted for all information.

Properties

| Property (type) | Default | Read / Write | Notes |
|------------------------------------|----------------------|--------------|---|
| Address (string) | "" (empty string) | Write | The email recipient's email address. |
| MessageText (string) | "" (empty string) | Write | The body text of the email. |
| Name (string) | "" (empty string) | Write | The email sender's name. |
| PromptForSettings (Boolean) | False | Write | If false, name, address, subject, and text must be specified programmatically. If true, the user's mail client is shown and the information must be provided by the user. When true, setting other values has no effect. |
| Subject (string) | "" (empty string) | Write | The subject line of the email. |

IMenuOptions

The **IMenuOptions** interface contains all the settings for a menu capture (input set to **siMenu**).

Properties

| Property (type) | Default | Read / Write | Notes |
|----------------------------------|---------|--------------|--|
| CaptureCascaded (Boolean) | False | Write | When false, only the current menu is included in the capture. When true, the current menu and all parent menus are included in the capture. |
| IncludeBar (Boolean) | False | Write | Enable or disable inclusion of the menu bar in the capture. |

IMP4Format

The IMP4Format is the default video format.

| Property (type) | Default | Read / Write | Notes |
|---|---------|--------------|---|
| VideoFileType (snag-VideoFileType) | svftMP4 | Read-only | Returns current format. |
| DisableMOOVAAtomOptimization (Boolean) | FALSE | Write | Enables/disables the re-ordering of the MP4 atoms to optimize the file for streaming from the internet. |

IPrinterOptions

The **IPrinterOptions** interface is used with printer output. If **UseDefault:Printer** is set to true then any other values set programmatically by **SetData** or by the user with **ShowSelectionDialog** are ignored.

Methods

| Method | Action | Parameters | Notes |
|---|--|---|--|
| GetData (string PrinterName, string DriverName, string Port) | Retrieves data about the selected printer. | [out] PrinterName (string): The name of the selected printer. [out] DriverName (string): The name of the driver installed for the printer. [out] Port (string): The port of the selected printer. | |
| SetData (string PrinterName, string DriverName, string Port) | Sets the printer for the Snagit capture object to use. | [in] PrinterName (string): The name of the printer to use. [in] DriverName (string): The name of the printer driver to use. [in] Port (string): The port of the selected printer. | If UseDefault:Printer is true, data set with this call is over-written. |
| ShowSelectionDialog (long IParentHandle,) | Displays a printer selection dialog to the | [in] IParentHandle (long): Handle to win- | If the user clicks OK on the printer |

| Method | Action | Parameters | Notes |
|-----------------------------|--|---|---|
| Boolean dialogAccepted) | user. If a user clicks OK in the dialog, the printer selected in the dialog becomes the selected printer for the Snagit capture object. | dows (hwnd) in 32-bit integer format. If handle is not available, set value to 0. [out] dialogAccepted (Boolean): True if the user clicked OK to select a new printer. False if the user clicked cancel. | selection dialog, any data set by a call to SetData is overwritten. If UseDefault:Printer is set to true, any selection made by the user is ignored. |

Properties

| Property (type) | Default | Read / Write | Notes |
|--|---------|--------------|--|
| UseDefault:Printer (Boolean) | True | Write | If true, the capture is sent to the system default printer. When set to true, this property overrides any other printer settings. |

IPrinterPageLayoutOptions

The **IPrinterPageLayoutOptions** interface is used to specify how to format the output going to the printer. These options are only used when either **sioPrinter** or **stoPrinter** is selected as the output for the capture object.

Properties

| Property (type) | Default | Read / Write | Notes |
|--|-----------|--------------|--|
| Height (long) | 4000 | Write | The height, in thousandths of an inch, of the capture as it appears on the printed page. |
| LayoutPosition (snag-Placement) | spLeftTop | Write | Sets the placement of the capture as it appears on the printed page. |
| MarginBottom (long) | 0 | Write | Sets the minimum distance, in thousandths of an inch, placed between the bottom edge of the printed page and the bottom of the capture. |
| MarginLeft (long) | 0 | Write | Sets the minimum distance, in thousandths of an inch, placed between the right edge of the printed page and the right side of the capture. |

| Property (type) | Default | Read / Write | Notes |
|--|--------------|--------------|---|
| MarginRight (long) | 0 | Write | Sets the minimum distance, in thousandths of an inch, placed between the right edge of the printed page and the top of the capture. |
| MarginTop (long) | 0 | Write | Sets the minimum distance, in thousandths of an inch, placed between the top edge of the printed page and the top of the capture. |
| Scale (long) | 100 | Write | Sets the scale of the capture on the printed page as a percentage. |
| ScalingType (snag-PrintScale) | spsFixedSize | Write | Sets the type of scaling to perform. See snag-PrintScale for the available options. |
| Width (long) | 4000 | Write | The width, in thousandths of an inch, of the capture as it appears on the printed page. |

IRegionOptions

The **IRegionOptions** interface contains all the settings for a region capture (input set to **siiRegion** or **stiRegion**). These options are only valid when using **siiRegion** or **stiRegion** as the input type.

Properties

| Properties (type) | Default | Read / Write | Notes |
|---|------------------|--------------|--|
| Height (long) | 240 | Write | Sets the height for the rectangular region to capture. Must be a positive integer. |
| SelectionMethod (snagRegionSelectionMethod) | srsmlInteractive | Write | Sets the type of region capture to perform. The default allows for the user to click and drag to select a region. |
| StartX (long) | 0 | Write | Sets the starting X coordinate in pixels of the rectangular region to capture. Ignored if UseStartPosition is set to false. |
| StartY (long) | 0 | Write | Sets the starting Y coordinate in pixels of the rectangular region to capture. Ignored if UseStartPosition is set to false. |

| Properties (type) | Default | Read / Write | Notes |
|----------------------------|---------|--------------|---|
| UseStartPosition (Boolean) | False | Write | When true, the capture is performed with no user input. The capture region is defined by the Height , Width , StartX , and StartY properties. |
| Width (long) | 320 | Write | Sets the width for the rectangular region to capture. Must be a positive integer. |

ISelectedArea

The **ISelectedArea** interface exposes the bounding box around the captured area. For a rectangular region, this is exactly the same. For an irregular region like a freehand area, this is the bounding box around that area (left-most point in the area, right-most, etc).

Properties

| Property (type) | Default | Read / Write | Notes |
|----------------------|---------|--------------|--|
| StartX (long) | 0 | Write | The X coordinate of the upper left corner of the bounding box. |
| StartY (long) | 0 | Write | The Y coordinate of the upper left corner of the bounding box. |
| Height (long) | 0 | Write | Sets the height, in "ems," to use for the font. The system uses the nearest height to the specified value that does not exceed it. |
| Weight (long) | 0 | Write | Sets the weight, or thickness, of the font. |

ITextFont

The **ITextFont** interface specifies font properties for text captions set by the [IImageAnnotation](#) interface.

The **ITextFont** interface can be accessed through the **Font** property in the [IImageCaptionOptions](#) interface.

Properties

| Property (type) | Default | Read / Write | Notes |
|----------------------------|---------|--------------|--|
| Height (long) | 12 | Write | Sets the height, in "ems," to use for the font. The system uses the nearest height to the specified value that does not exceed it. |
| Weight (long) | 400 | Write | Sets the weight, or thickness, of the font. Use a value of 400 for normal text and 700 for bold text. Valid values are 0 - 1000. |
| Italic (long) | 0 | Write | If true, the text is written in italics. |
| Underline (long) | 0 | Write | If true, the text is underlined. |
| PitchFamily (long) | 1 | Write | For more information, see the LOGFONT struct in the Microsoft documentation. |
| CharacterSet (long) | 0 | Write | For more information, see the LOGFONT struct in the Microsoft documentation. |
| FaceName (string) | "Arial" | Write | The font face name such as "Courier", "Times New Roman", or "Sans Serif" to use. |

ITWAINOptions

The **ITWAINOptions** interface contains all the settings for a TWAIN capture (input set to **siiTwain**).

Methods

| Method | Action | Parameters | Notes |
|---|---|--|---|
| ShowSelectionDialog (Long, IParentHandle, Boolean dialogAccepted) | Displays a TWAIN device selection dialog to the user. If the user clicks OK in the dialog, the TWAIN device selected in the dialog becomes the selected TWAIN device for the Snagit capture object. | [in] IParentHandle (long): Handle to windows (hwnd) in 32-bit integer format. If handle is not available set value to 0. [out] dialogAccepted (Boolean): True if the user clicked OK to | If this dialog is shown to the user and a TWAIN device is selected, it has no affect unless the input of the image capture object is set to siiTwain . |

| Method | Action | Parameters | Notes |
|--------|--------|---|-------|
| | | select a TWAIN device and false if the user clicked Cancel. | |

Properties

| Property (type) | Default | Read / Write | Notes |
|------------------------|-------------------|--------------|--|
| Source (string) | "" (empty string) | Write | Specifies by name the TWAIN source to use. |

IVideoCapture

The **IVideoCapture** interface contains the settings for use when capturing a video.

Snagit version 11.1.0 or later is required.

Methods

| Name | Action | Notes |
|---------------------|---|---|
| Capture | Invokes the video recording. | This could include selecting the region to record when using the Snagit Recording interface. You can poll the IsCaptureDone property or subscribe to _ICaptureEvents to determine when the recording is finished. |
| Start | Begins recording video. | This can be called, instead of Capture, to invoke a recording and is intended for clients that implement their own recording interface. |
| Pause | Pauses a recording. | This is intended for clients that implement their own recording interface. |
| Resume | Continues a recording. | This is intended for clients that implement their own recording interface. |
| Stop | Stops a recording. | This is intended for clients that implement their own recording interface. |
| AudioDevices | Obtains a list of audio recording devices that are available on a system. | Outputs[out]: SAFEARRAY(BSTR) audio device names, SAFEARRAY(LONG) device Ids |

Properties

| Property (type) | Default | Read / Write | Notes |
|---|------------------------|--------------|---|
| AudioDevice (long) | Windows default device | Write | Sets the audio device to record with. Returns: The currently selected audio device Id. |
| AverageFrameRate (float) | | Read-only | Gets the overall average frame rate. |
| CaptureState (snag-CaptureState) | scsIdle | Read-only | Gets the current capture state. |
| EnablePreviewWindow (Boolean) | FALSE | Write | Sets previewing the video in the editor. |
| EncoderErrorCode (unsigned int) | | Read-only | Gets the internal encoder error code. |
| ForegroundPreview (Boolean) | Enabled | Write | When enabled, forces the editor window to the foreground after making a recording. This is only valid if the EnablePreviewWindow property has been enabled. |
| FrameCount (unsigned long) | | Read-only | Gets the current total frames recorded. |
| HideRecordingUI (Boolean) | FALSE | Write | Enables/disables the Snagit video recording interface. Disable this if you want to show your own recording interface. |
| IncludeCursor (Boolean) | TRUE | Write | Enables/disables including the mouse cursor in the video recording. |
| Input (snagVideoInput) | sviCapture | Write | Changes the selection input type. |
| InputRegionOptions (IRegionOptions) | | Read-only | An interface containing all the settings for a Region capture (input set to siiRegion or stiRegion). |
| InputWindowOptions (IWindowOptions) | | Read-only | An interface containing the settings for a Window capture (input set to siiWindow or stiWindow). |
| IsCaptureDone (Boolean) | FALSE | Read- | After a call to the Capture method |

| Property (type) | Default | Read / Write | Notes |
|---|-----------|--------------|---|
| | | only | has been made, this property tests to see if the capture has been completed. This property blocks and performs a polling to see when the capture state goes back to scsIdle . |
| LastCaptureSucceeded (Boolean) | TRUE | Read-only | Returns true if the last capture attempt was successful. Returns false if the last capture attempt was unsuccessful. |
| LastError (snagError) | serrNone | Read-only | Holds the last error set in the Snagit COM server. If an application subscribes to the OnStateChange event of the _ICaptureEvents interface, this property can be read for the error on a scsCaptureFailed state change. This property is reset to serrNone when a new call to the Capture method is made. |
| LastRecorderError (snagRecorderError) | srErrNone | Read-only | Returns the last recorder error. You may want to get the specific error code by using the EncoderErrorCode or RecorderErrorCode property before contacting technical support. |
| MuteMic (Boolean) | FALSE | Write | Enables/disables recording audio from the selected microphone. |
| MuteSystemAudio (Boolean) | FALSE | Write | Enables/disables recording system audio sounds. |
| Output (snagVideoOutput) | svoFile | Write | Set this to specify where to output your video recording (file, FTP, or preview in editor). |
| OutputFTPOptions (IFTPOptions) | | Read-only | An interface containing settings for sending the capture out to FTP (output set to sioFTP or stoFTP). At a minimum, server and filename must |

| Property (type) | Default | Read / Write | Notes |
|---|---------|--------------|--|
| | | | be set. |
| OutputVideoFile (IVideoFile) | | Read-only | An interface for the configuration of the output file (location and naming). |
| RecorderErrorCode (int) | | Read-only | Gets the internal recorder error code. |
| RecordingDuration (unsigned long) | | Read-only | Returns the total duration of the video recording. |
| UseMagnifierWindow (Boolean) | TRUE | Read-only | When enabled, a magnifier window shows next to the capture crosshairs for precision when defining capture regions. |
| VideoFormat (IVideoFormat) | MP4 | Read-only | At this time, you do not need to specify the output video file type since we only currently offer MP4. |

IVideoFile

The IVideoFile interface contains the settings for the configuration of the output video file. It provides control over the file naming options and output location.

Properties

| Property (type) | Default | Read / Write | Notes |
|-----------------------------------|-----------------|--------------|--|
| AutoFilePrefix (string) | "SNAG-" | Write | When the FileNamingMethod is set to sofnmAuto , this string is the prefix used to automatically name files. |
| AutoNumPrefixDigits (long) | 4 | Write | When FileNamingMethod is set to sofnmAuto , this property specifies the number of digits to include in the automatically named output file. |
| Directory (string) | "" empty string | Write | Sets the directory for the output file. If the FileNamingMethod is not set to sofnmPrompt , the Snagit COM server fails if this property is not set. |

| Property (type) | Default | Read / Write | Notes |
|---|-------------|--------------|--|
| Filename (string) | "SNAGIT" | Write | Specifies the output filename to use. This is only used if FileNamingMethod is set to sofnmFixed . |
| FileNamingMethod (snag-OutputFileNamingMethod) | sofnmPrompt | Write | Method for naming the output file. |

IWindowOptions

The **IWindowOptions** interface contains the settings for use when capturing a window. These options are only valid when using **siiWindow** or **stiWindow** as the input type.

Properties

| Property (type) | Default | Read / Write | Notes |
|---|-----------------|--------------|--|
| SelectionMethod (snag-WindowSelectionMethod) | swsmInteractive | Write | Specifies the method used to select the window for capture. |
| Handle (string) | 0 (long) | Write | Specifies the window handle of the window to capture. |
| XPos (string) | 0 (long) | Write | Specifies the X coordinate of a point on the screen. Used in combination with the Y coordinate to capture the window under that point. |
| YPos (string) | 0 (long) | Write | Specifies the Y coordinate of a point on the screen. Used in combination with the X coordinate to capture the window under that point. |

Enumerations

The following section describes pre-defined data objects used throughout the Snagit COM server.

- ▶ **snagAutoScrollMethod**
- ▶ **snagAutoScrollStartingPosition**
- ▶ **snagCaptionTextStyle**
- ▶ **snagCaptureState**
- ▶ **snagColorConversionMethod**
- ▶ **snagColorSubMethod**
- ▶ **snagCompassDirection**
- ▶ **snagError**
- ▶ **snagHotspotType**
- ▶ **snagImageColorDepth**
- ▶ **snagImageFileSubType**
- ▶ **snagImageFileType**
- ▶ **snagImageInput**
- ▶ **snagImageOutput**
- ▶ **snagImageScaleBy**
- ▶ **snagImageScaleMethod**
- ▶ **snagNotificationType**
- ▶ **snagOutputFileNamingMethod**
- ▶ **snagPlacement**
- ▶ **snagPrintScale**
- ▶ **snagRecorderError**
- ▶ **snagRecorderState**
- ▶ **snagRegionSelectionMethod**
- ▶ **snagTimeDateOrder**
- ▶ **snagTrimMethod**
- ▶ **snagVideoFileType**
- ▶ **snagVideoInput**
- ▶ **snagVideoOutput**
- ▶ **snagWindowSelectionMethod**

snagAutoScrollMethod

An enumeration used to scroll windows or regions automatically.

| Name | Value | Description |
|----------------|-------|--|
| sasmNone | 0 | Do not automatically scroll a window or region. |
| sasmVertical | 1 | Automatically scroll the window or region down vertically. |
| sasmHorizontal | 2 | Automatically scroll the window or region to the right horizontally. |

| Name | Value | Description |
|----------|-------|---|
| sasmBoth | 3 | Automatically scroll the window or region both down and to the right. |

snagAutoScrollStartingPosition

An enumeration used to set the starting location for automatically scrolling a window.

| Name | Value | Description |
|--------------|-------|---|
| sasspCurrent | 0 | Begin the automatic scroll from the current position. |
| sasspTop | 1 | Scroll to the top of the window before starting the automatic scrolling capture. |
| sasspLeft | 2 | Scroll to the left of the window before starting the automatic scrolling capture. |
| sasspTopLeft | 3 | Scroll to the top and left of the window before starting the automatic scrolling capture. |

snagCaptionTextStyle

An enumeration used to set the text style in captions placed in images.

| Name | Value | Description |
|--------------------|-------|--|
| sctsNormal | 0 | Text captions on an image have no special effect. |
| sctsDropShadow | 1 | Text captions on an image have a drop shadow. |
| sctsOutlinedShadow | 2 | Text captions on an image have an outlined shadow. |

snagCaptureState

An enumeration used to set the state of the Snagit COM server during capture.

| Name | Value | Description |
|---------------------|-------|--|
| scsIdle | 0 | The Snagit COM server is not currently taking a capture. |
| scsCaptureSucceeded | 10 | The capture was completed successfully. |
| scsCaptureFailed | 11 | The capture failed or was canceled. |
| scsBusy | 12 | The capture process has not yet completed (e.g. waiting for user input on a dialog). |

snagColorConversionMethod

An enumeration used to change image colors.

| Name | Value | Description |
|----------------|-------|--|
| sccmNone | 0 | No color conversion. |
| sccmMonochrome | 1 | Change the captured image to monochrome (black and white). |
| sccmHalftone | 2 | Change the captured image to dithered monochrome. |
| sccmGrayscale | 3 | Change the captured image to grayscale. |

snagColorSubMethod

An enumeration used to set how colors are replaced in an image.

| Name | Value | Description |
|------------|-------|---|
| scsmNone | 0 | Leave the same colors in the image. |
| scsmInvert | 1 | Invert the color values (255 - x for each of Red, Blue, and Green). |
| scsmCustom | 2 | Use the values specified by the user. |

snagCompassDirection

An enumeration used to set direction specifications.

| Name | Value | Description |
|--------------|-------|----------------|
| scdNorth | 0 | Up |
| scdNorthEast | 1 | Up and right |
| scdEast | 2 | Right |
| scdSouthEast | 3 | Down and right |
| scdSouth | 4 | Down |
| scdSouthWest | 5 | Down and left |
| scdWest | 6 | Left |
| scdNorthwest | 7 | Up and left |

snagError

An enumeration used to set the type of error reported by the Snagit COM server.

| Name | Value | Description |
|---------------------------------|-------|---|
| serrUnknown | -1 | An unknown error occurred |
| serrNone | 0 | No error |
| serrSnagitExpired | 1 | Expired evaluation version of Snagit |
| serrInvalidInput | 2 | An invalid input was specified for the capture object |
| serrInvalidOutput | 3 | An invalid output was specified for the capture object |
| serrEngineBusy | 4 | The capture engine is currently busy |
| serrInvalidScrollDelay | 5 | The scroll delay specified for the automatic scrolling parameter was invalid |
| serrInvalidDelay | 6 | Delay capture has an invalid delay time |
| serrInvalidColorEffectValue | 7 | One of the values set for a color effect is invalid |
| serrInvalidFileProgressiveValue | 8 | The progressive value setting in ImageFile is not valid |
| serrInvalidFileQualityValue | 9 | The file quality setting in ImageFile is not valid |
| serrInvalidFileDirectory | 10 | A valid directory is not specified for ImageFile output |
| serrInvalidColorConversionValue | 11 | An invalid color conversion value was specified in the ImageColorConversion settings |
| serrInvalidImageResolution | 12 | An invalid image resolution value was specified in the ImageResolution settings |

snagHotspotType

An enumeration used to set the types of controls to capture and create as hotspots.

| Name | Value | Description |
|---------------------|-------|--|
| shtUnknown | -1 | The hotspot type is unknown |
| shtNone | 0 | Do not capture hotspots |
| shtLinksOnly | 1 | Turn links found on webpages into hotspots in the image |
| shtLinksAndControls | 2 | Turn links, buttons, tabs, and other controls into hotspots in the image |

snagImageColorDepth

An enumeration used to set the number of bits used to represent a color in an image.

| Name | Value | Description |
|-----------|-------|--|
| sicdAuto | 0 | Automatically choose the color depth for the image. |
| sicd1Bit | 1 | Use 1 bit to specify the color (monochrome) |
| sicd2Bit | 2 | Use 2 bit color |
| sicd3Bit | 3 | Use 3 bit color |
| sicd4Bit | 4 | Use 4 bit color |
| sicd5Bit | 5 | Use 5 bit color |
| sicd6Bit | 6 | Use 6 bis color |
| sicd7Bit | 7 | Use 7 bit color |
| sicd8Bit | 8 | Use 8 bit color |
| sicd16Bit | 16 | Use 16 bit color |
| sicd24Bit | 24 | Use 24 bit color (truecolor) |
| sicd32bit | 32 | Use 32 bit color (truecolor plus transparency information) |

snagImageFileSubType

An enumeration used to set the subtypes for image file formats.

| Name | Value | Description |
|------------------------|-----------|---|
| sifstUnknown | -1 | Unknown format |
| sifstBMP_Uncompressed | 0x0000001 | Uncompressed Windows bitmap |
| sifstBMP_RLE | 0x0000002 | Windows bitmap with Run-Length Encoding |
| sifstGIF_NonInterlaced | 0x0000004 | Non-interlaced GIF |
| sifstGIF_Interlaced | 0x0000008 | Interlaced GIF |
| sifstJFIF_444 | 0x0000010 | JPEG non-progressive 4:4:4 |
| sifstJFIF_422 | 0x0000020 | JPEG non-progressive 4:2:2 |

| Name | Value | Description |
|------------------------------|------------|--|
| sifstJFIF_411 | 0x0000040 | JPEG non-progressive 4:1:1 |
| sifstJFIF_444_Progressive | 0x0000080 | JPEG progressive 4:4:4 |
| sifstJFIF_422_Progressive | 0x0000100 | JPEG progressive 4:2:2 |
| sifstJFIF_411_Progressive | 0x0000200 | JPEG progressive 4:1:1 |
| sifstJFIF_Gray | 0x0000400 | JPEG non-progressive grayscale |
| sifstJFIF_Gray_Progressive | 0x0000800 | JPEG progressive grayscale |
| sifstCCITT | 0x0001000 | TIFF subtype for fax |
| sifstCCITT_Group3_1Dimension | 0x0002000 | TIFF subtype for fax |
| sifstCCITT_Group3_2Dimension | 0x0004000 | TIFF subtype for fax |
| sifstCCITT_Group4 | 0x0008000 | TIFF subtype for fax |
| sifstTIF_Uncompressed | 0x0010000 | Uncompressed TIFF |
| sifstTIF_PackBits | 0x0020000 | PackBits compressed TIFF |
| sifstTIF_LZW | 0x0040000 | LZW compressed TIFF |
| sifstJTIF_Gray | 0x0080000 | JPEG compressed grayscale TIFF |
| sifstTIF_CMYK | 0x0100000 | Uncompressed TIFF using CMYK colorspace |
| sifstTIF_YCC | 0x0200000 | Uncompressed TIFF using YCC colorspace |
| sifstTIF_PACK_CMYK | 0x0400000 | PackBits compressed TIFF using CMYK colorspace |
| sifstTIF_PACK_YCC | 0x0800000 | PackBits compressed TIFF using YCC colorspace |
| sifstTIF_LZW_CMYK | 0x1000000 | LZW compressed TIFF using CMYK colorspace |
| sifstTIF_LZW_YCC | 0x2000000 | LZW compressed TIFF using YCC colorspace |
| sifstJTIF_444 | 0x4000000 | JPEG compressed TIFF 4:4:4 |
| sifstJTIF_422 | 0x8000000 | JPEG compressed TIFF 4:2:2 |
| sifstJTIF_411 | 0x10000000 | JPEG compressed TIFF 4:1:1 |

snagImageFileType

An enumeration used to set the format of an image file.

Formats with values from 7 to 27 are only available for Snagit version 8.1 and higher.

| Name | Value | Description |
|-------------|-------|-----------------------------|
| siftUnknown | -1 | Unknown format |
| siftBMP | 0 | Windows bitmap |
| siftTIFF | 2 | Tagged Image File Format |
| siftJPEG | 3 | JPEG |
| siftGIF | 4 | CompuServe GIF |
| siftPNG | 5 | Portable Network Graphic |
| siftTGA | 6 | Truevision Targa |
| siftRAS | 7 | SUN Raster |
| siftWMF | 9 | Windows Metafile |
| siftEPS | 11 | Encapsulated Postscript |
| siftOS2 | 17 | OS/2 Bitmap |
| siftWFX | 18 | WinFax |
| siftEMF | 19 | Windows Enhanced Metafile |
| siftWPG | 20 | WordPerfect |
| siftPSD | 21 | Adobe PhotoShop 3.0 |
| siftICO | 22 | Windows icon |
| siftCUR | 23 | Windows cursor |
| siftPDF | 24 | Adobe PDF |
| siftSNAG | 25 | Snagit Capture File |
| siftSWF | 26 | Adobe Shockwave Flash |
| siftMHT | 27 | Web Page with Image (MHTML) |

snagImageInput

An enumeration used to set the type of capture.

| Name | Value | Description |
|-------------------|-------|--|
| siiDesktop | 0 | Capture the full screen |
| siiWindow | 1 | Capture one window |
| siiRegion | 4 | Capture a region of the screen |
| siiGraphicFile | 6 | Capture an existing graphic file |
| siiClipboard | 7 | Capture the contents of the Clipboard |
| siiMenu | 9 | Capture a menu |
| siiObject | 10 | Capture an object (user interactive) |
| siiFreehand | 12 | Capture a user drawn freehand region of the screen |
| siiCustomScroll | 18 | User draws a region and then clicks a scroll button. Capture continues until the window has scrolled to the bottom. |
| siiTWAIN | 19 | Capture from a TWAIN source (usually a scanner) |
| siiExtendedWindow | 23 | REsize a window before capture. The size of the window (potentially larger than the screen resolution) is specified in advance or by the user. |
| siiCapture | 25 | Capture using the All-in-One Capture® input, allowing window, region or scrolling window capture. |

snagImageOutput

An enumeration used to set the output of a captured image.

| Name | Value | Description |
|--------------|-------|--|
| sioNone | 0 | No output is set |
| sioPrinter | 1 | Send the captured image directly to the printer |
| sioFile | 2 | Save the image to a file. The filename can be specified, automatically generated, or prompted for. |
| sioClipboard | 4 | Place the captured image in the system Clipboard |
| sioMail | 8 | Send the image as an attachment in an email. This start the system default email client. Uses settings in IMailOptions . |

| Name | Value | Description |
|--------|-------|--|
| sioFTP | 32 | Upload an image file to an FTP server. See IFTPOptions |

snagImageScaleBy

An enumeration used to set the scaling dimensions of the image.

| Name | Value | Description |
|--------------------|-------|--|
| sisbFactor | 0 | <p>Scale the width and height based on a percentage.</p> <p>The sisbFactor type is only used when the <code>IIImageScale::ScaleMethod</code> is set to sismCustom.</p> <p>It is used to independently scale the width and height based on a percentage. The scaling percentage is set through the IIImageScale::FactorHeight and IIImageScale::FactorWidth properties.</p> <p>Make sure to set IIImageScale::KeepAspectRatio to False in order to scale the height and width independently. If the aspect ratio is set to True then it will scale, both height and width, based on the value set in the IIImageScale::Factor property.</p> |
| sisbWidthAndHeight | 1 | Scale width and height to a specified value. |
| sisbWidth | 2 | Scale width to match a specified value. |
| sisbHeight | 3 | Scale height to match a specified value. |

snagImageScaleMethod

An enumeration used to change the size of a captured image.

| Name | Value | Description |
|------------|-------|--|
| sismCustom | 0 | Uses the custom scaling options defined in the IIImageScale interface. |

| Name | Value | Description |
|----------------|-------|---|
| | | To specify the scaling factor, you must set the FactorHeight and FactorWidth within the ImageScale properties. |
| sismPercentage | 1 | Scale by a percentage and always maintain the original aspect ratio. This scaling method can only be used with the Factor and UseSmoothScaling properties defined in ImageScale . |
| sismNone | 2 | Do not scale the image. |

snagNotificationType

An enumeration used to set the types of messages Snagit displays. These are not related to event handling.

| Name | Value | Description |
|----------------|-------|--|
| sntNone | 0 | No notifications are displayed |
| sntInformation | 1 | Informational dialogs are displayed |
| sntErrors | 2 | Error messages are displayed |
| sntAll | 3 | Both error and informational dialogs are displayed |

snagOutputFileNamingMethod

An enumeration used to determine how files are named during file output.

| Name | Value | Description |
|-------------|-------|---|
| sofnmPrompt | 0 | The user is prompted for the name and location to save the file. Use with sioFile and stoFile . |
| sofnmFixed | 1 | The file is saved with a fixed file name specified by the program. Specified in ImageFile or ImageFile2 . |
| sofnmAuto | 2 | The file is saved with an automatically generated name. |

snagPlacement

An enumeration used to set the placement of objects.

| Name | Value | Description |
|-----------------|-------|--|
| spUnknown | -1 | Placement unknown |
| spLeftTop | 0 | Place in upper left |
| spRightTop | 1 | Place in upper right |
| spLeftBottom | 2 | Place in lower left |
| spRightBottom | 3 | Place in lower right |
| spCenterMiddle | 4 | Place in the center |
| spCenterTop | 5 | Place in the center of the top |
| spLeftMiddle | 6 | Place in the middle of the left |
| spRightMiddle | 7 | Place in the middle of the right |
| spCenterBottom | 8 | Place in the center of the bottom |
| spOutsideTop | 9 | Place on the outside top of the capture |
| spOutsideLeft | 10 | Place on the outside left of the capture |
| spOutsideBottom | 11 | Place on the outside bottom of the capture |
| spOutsideRight | 12 | Place on the outside right of the capture |

snagPrintScale

An enumeration used to set how an image is fitted on a page for printer output.

| Name | Value | Description |
|-------------------------|-------|---|
| spsSinglePage | 0 | The image, regardless of size, is scaled to fit on one page. |
| spsPercentScale | 1 | A scaling percentage is applied to decrease or increase the image's size on the printed page. An image printed at 100 percent is the same as one printed with the spsProportionalToScreen setting. |
| spsProportionalToScreen | 2 | The relationship between the width of the area captured and the width of the screen is used to calculate the width of the printed image in relation to the width of the printed page. |
| spsFixedSize | 3 | The width and height are fixed, scaling or distorting the image if necessary. |

| Name | Value | Description |
|-----------------------|-------|--|
| spsSinglePageMaximize | 4 | The image is made as large as possible while still fitting on one page. This setting preserves the aspect ratio of the original image. |
| spsAutoScale | 5 | The width of the image is scaled to the width of the page. The length is scaled in proportion and can be more than one page. |

snagRecorderError

An enumeration used to set the type of recording error reported by the Snagit COM server.

| Name | Value | Description |
|---------------------------|-------|---|
| srErrNone | 0 | No errors |
| srErrInitRecorderFailed | 1 | Error occurred while initializing the video recorder |
| srErrInitRecorderFailed | 2 | Error occurred while initializing the video encoder |
| srErrRecorderThrownCode | 3 | There was a recorder error. <div>The specific error code can be retrieved.</div> |
| srErrEncoderThrownCode | 4 | There was an encoder error. <div>The specific error code can be retrieved.</div> |
| srErrStarting | 5 | There was an error trying to start the recording. |
| srErrPausing | 6 | There was an error trying to pause the recording. |
| srErrResuming | 7 | There was an error when trying to resume recording. |
| srErrStopping | 8 | There was an error stopping the recording. |
| srErrDiskSpaceLow | 9 | The disk drive that contains the user's \AppData\Local\Temp folder is running out of free space. |
| srErrInvalidRecordingRect | 10 | The selected region to record is outside of the Snagit recording limits minimum 64 x 64 pixels, maximum 1920 x 1080 pixels. |

| Name | Value | Description |
|------------------------------|-------|---|
| srErrSystemAudioNotAvailable | 11 | No device was found in which to record your system audio. |
| srErrUnknown | 99 | Unknown error |

snagRecorderState

An enumeration used to set the state of the Snagit COM server recording.

| Name | Value | Description |
|--------------------|-------|--|
| srStateInitialized | -1 | This is the initial recorder state. |
| srStateCounting | 0 | This state is only used when the recording UI is enabled and indicates that it is doing the count down. |
| srStateRecording | 1 | The recorder is now capturing video. |
| srStatePausing | 2 | The recorder is pausing. |
| srStateStopping | 3 | The recorder is stopping. |
| srReselecting | 4 | This state is only used when the recording interface is enabled and indicates that the user is reselecting a recording area. |

snagRegionSelectionMethod

An enumeration used to specify what method to use when capturing a region.

| Name | Value | Description |
|------------------|-------|---|
| srsmlInteractive | 0 | Interactively click and drag a region to be captured. |
| srsmlFixed | 1 | Use values provided to capture a region of fixed size. This may still be interactive if a starting X and Y position is not given. |

snagTimeDateOrder

An enumeration used to set the order of time and date for timestamps.

| Name | Value | Description |
|------------------|-------|-------------------------|
| stdoTimeThenDate | 0 | Show time and then date |

| Name | Value | Description |
|------------------|-------|---------------------------------|
| stdoTimeOnly | 1 | Show only the time |
| stdoDateThenTime | 2 | Show the date and then the time |
| stdoDateOnly | 3 | Show only the date |

snagTrimMethod

An enumeration used to cut the outside borders of captured images.

| Name | Value | Description |
|-----------|-------|--|
| stmNone | 0 | No trimming is performed |
| stmManual | 1 | The edge of the image is trimmed by the number of pixels specified |
| stmAuto | 2 | Automatically trim blank areas from the edges of captured images. A blank area on an image is one that has no change in color. |

snagVideoFileType

An enumeration used to set the format of the video file.

| Name | Value | Description |
|-------------|-------|-----------------------|
| svftUnknown | -1 | Unknown file format |
| svftMP4 | 0 | MPEG-4 file (default) |

snagVideoInput

An enumeration used to set the input selection type.

| Name | Value | Description |
|------------|-------|--|
| sviWindow | 1 | Record a window |
| sviRegion | 4 | Record a region of the screen |
| sviCapture | 25 | Record using the All-in-One input, allowing for selecting a region or a window |

snagVideoOutput

An enumeration used to set the output of the recording.

| Name | Value | Description |
|---------|-------|---|
| svoNone | 0 | Preview the recording in Snagit Editor |
| svoFile | 2 | Save the video to a file. The filename can be specified, automatically generated, or prompted for |
| svoFTP | 32 | Upload a recording to a FTP server |

snagWindowSelectionMethod

An enumeration used to specify how to make a window selection.

| Name | Value | Description |
|-----------------|-------|---|
| swsmInteractive | 0 | The user selects a window to capture |
| swsmActive | 1 | Capture the currently active window |
| swsmHandle | 2 | Capture the window with the given window handle (as a long value) |
| swsmPoint | 3 | Capture the window under the point specified with X and Y coordinates |

Events

The **_ICaptureEvents** interface is an event interface used for callbacks. A client program may choose to subscribe to events from the Snagit COM Object.

Methods

| Name | Action | Parameters | DisplID |
|----------------------|---|---|---------|
| OnError | Occurs when there is an error in the capture object. | [in] Error (snagError): The code for the error that occurred. | 1 |
| OnStateChange | Occurs when there is a state change in the capture object. | [in] State (snagCaptureState): The code for the state change that occurred. | 2 |
| OnFileWritten | Occurs when a file is written to notify the client program of the filename. | [in] Filename (string): The filename that was written. | 3 |

_IRecorderEvents Methods

The **_IRecorderEvents** is an event interface used for callbacks for clients that implement their own recording interface. A client program may choose to subscribe to events from the Snagit COM Object.

| Name | Action | Parameters | DispID |
|----------------------------------|--|---|--------|
| OnAudioVolumeLevel | The recorder sends volume level events as a percentage (0 – 100). | (int) Percent | 1 |
| OnRecorderError | Occurs when there is an error by Snagit Recorder. <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> This is not the same as the OnError from the _ICaptureEvents interface </div> | (sna-gRecorderError) Error | 2 |
| OnRecorderStateChange | Occurs when the Snagit Recorder changes recording states. | (sna-gRecorderState) newState | 3 |
| OnMuteDeviceChanged | Occurs when using the Snagit Recording interface and the user clicks the mute device control. | (VARIANT_BOOL) bMuted | 4 |
| OnMuteSystemAudioChanged | Occurs when using the Snagit Recording interface and the user just clicks the Mute System Audio option. | (VARIANT_BOOL) bMuted | 5 |
| OnSelectedRecordingRegion | Occurs when using the Snagit selection interface and the user has finished selecting the region to record. | (long) xOffset, (long) yOffset, (long) rectWidth, (long) rectHeight | 6 |

Data Types

Boolean

True (-1) or False (0)

Many languages have defines for true and false values; these may or may not be translated to the correct `VARIANT_BOOL` values. For example, C++/ATL programs should use the `VARIANT_TRUE` and `VARIANT_FALSE`, whereas Visual Basic, Visual Basic .NET, Visual Basic Script, and C# correctly translate the default `true` and `false` values.

Long

32-bit signed integer

String

Variable length string

► C++/ATL: `BSTR` or `CCoBSTR`

Interface

All interfaces are derived from `IDispatch` for use in scripting languages such as Visual Basic Script

Colors

Colors are represented as long values where the format is :

`0x00bbggrr`

Languages such as MFC and Visual Basic define the macro `RGB(r, g, b)` that correctly creates this value from the three component values.

Code Samples

Using Snagit's COM Server, you can easily incorporate Snagit's screen capture functionality into your organization's proprietary applications. The COM Server lets you customize capture instructions for Snagit, automate the capture process, and programmatically control Snagit's entire array of image and video capture features from within your own application.

You can access Snagit's capture functionality from any programming language that supports COM, including the following:

- ▶ C#
- ▶ C/C++
- ▶ Visual Basic
- ▶ Fox Pro 9
- ▶ Ruby
- ▶ VBScript

To view sample projects in various programming languages that demonstrate how to use Snagit to take image captures and video recordings from your own application, go to <https://github.com/TechSmith/Snagit-COM-Samples>.